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TI - Thermoplastic elastomer compositions

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CODEN: JKXXAF

DT - Patent

LA - Japanese

IC - ICM C08L075/04

ICS C08G018/42;C08L67/02

CC - 39-9 (Synthetic Elastomers and Natural Rubber)

Section cross-reference(s): 37

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PATENT NO. KIND DATE APPLICATION NO. DATE

XP-002232851

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PN - JP62141063 A 19870624 JP 1985-281655 19851214 <--

PR - JP 1985-281655 19851214

AB - Comps. for blow molding and extrusion, with good flexibility and resistance to hydrolysis, creep, and heat, comprise blends of 95-5 parts thermoplastic urethane rubber, 5-95 parts thermoplastic block copolyester, and 0.05-20 phr polyisocyanate and/or polyepoxide. A mixt. of Paraprene 22S (thermoplastic urethane rubber) 70, butanediol-polytetramethylene glycol-terephthalic acid copolymer 30, and Isonate 143L (MDI carbodiimide deriv.) 1 part had melt index 3.0 g/10 min. This compn. gave injection moldings with JIS A hardness 86, tensile strength (T) 270 kg/cm², elongation (E) 560%, T retention 64 and 72% and E retention 94 and 86% after 10 days in air at 140.degree. or 10 days in water at 100.degree., resp., folding endurance 7.7 .times. 106 times, and creep 4.5 mm; vs 84, 225, 490, 38, 54, 97, 86, 8 .times. 105, and 21.0, resp., without the isocyanate.

ST - urethane rubber blend thermoplastic; polyoxyalkylene polyester blend thermoplastic; isocyanate blend rubber thermoplastic; epoxide blend rubber thermoplastic; terephthalate polyester blend

IT - Vulcanization accelerators and agents
(polyisocyanates and polyepoxides, for thermoplastic rubber blends)

IT - Epoxy resins, uses and miscellaneous

RL: USES (Uses)

(vulcanizing agent, for thermoplastic rubber blends)

IT - Rubber, urethane, uses and miscellaneous

(polyester, blends with polyester rubbers, thermoplastic)

IT - Rubber, synthetic

RL: USES (Uses)

(polyester, blends with urethane rubbers, thermoplastic)

IT - Polyoxyalkylenes, uses and miscellaneous

RL: PREP (Preparation)

(polyester-, rubber, blends with urethane rubber, thermoplastic)

IT - Polyesters, uses and miscellaneous

RL: PREP (Preparation)

(polyoxyalkylene-, rubber, blends with urethane rubber, thermoplastic)

IT - 37282-12-5

RL: USES (Uses)

(rubber, blends with urethane rubber, thermoplastic)

IT - 25068-38-6, Epikote 828 39394-41-7, Isonate 143L

RL: USES (Uses)

(vulcanizing agent, for thermoplastic rubber blends)